

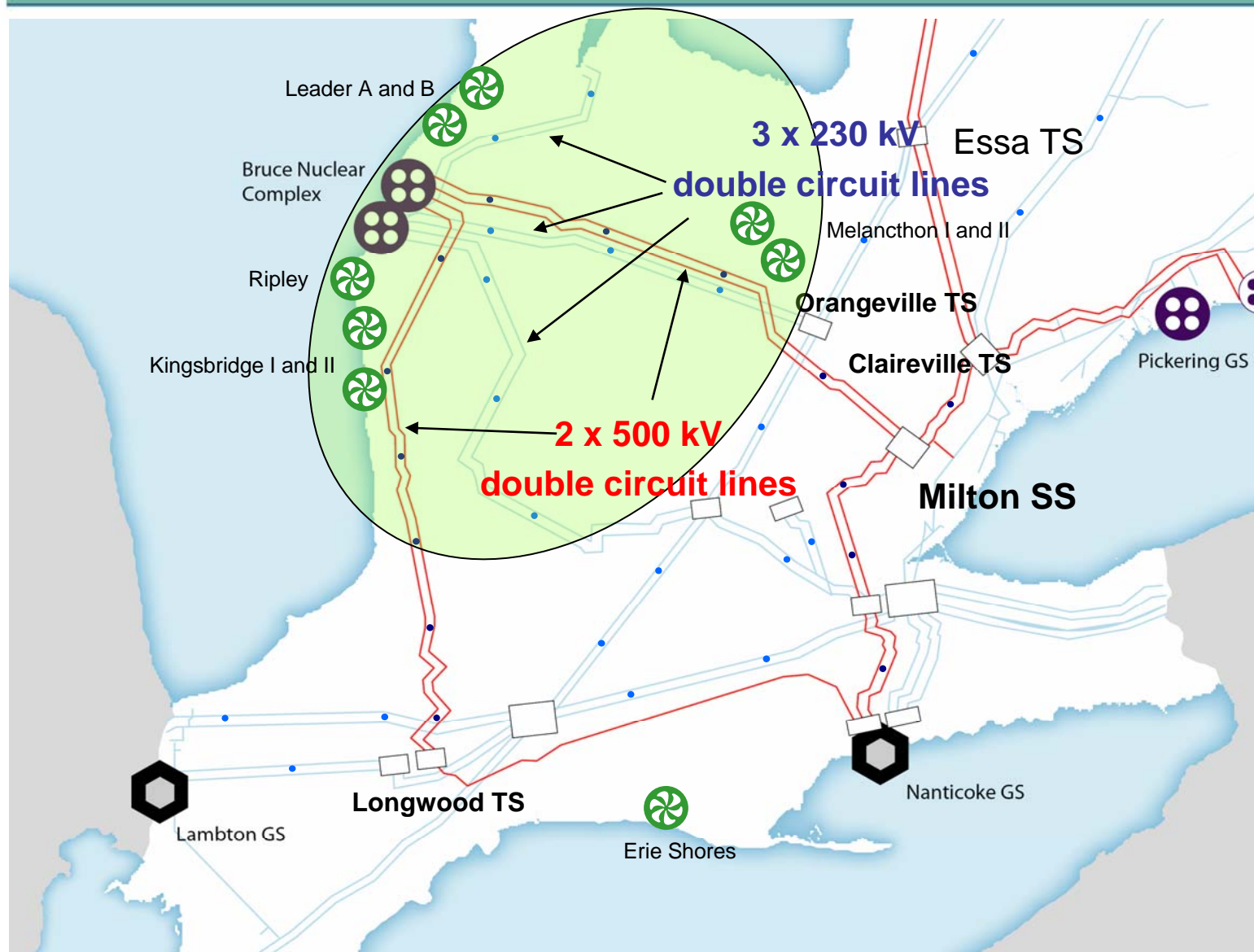
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# Bruce Area Transmission Reinforcement - Need and Alternatives

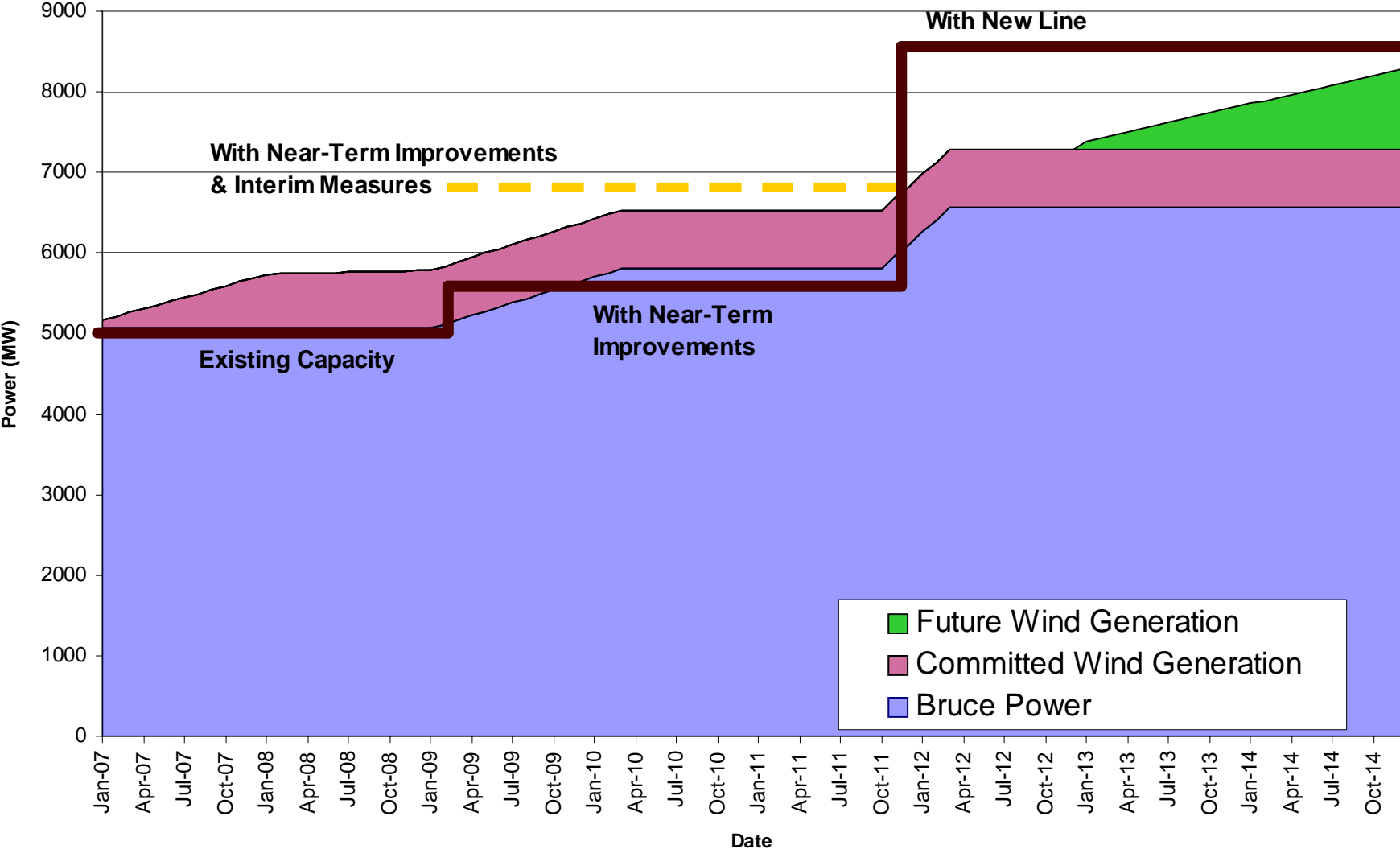
Bob Chow  
Director – Transmission Integration  
Ontario Power Authority

April, 2007

# Bruce Area Generation and Transmission



# Bruce Area Generation and Transmission Capability



# Bruce Transmission Needs

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## General

- Assist in achieving the Government policy goals as related to the increased use of renewable energy resources and replacement of coal-fired generation in Ontario

## Specific

- Permit the full deployment of committed resources in the Bruce area
- Enable the development of potential new renewable resources in the Bruce area
- Maintain system reliability and minimize the use of interim mitigation measures

# Long-term Solution: New 500 kV Line Along Existing Right of Way

BRUCE

ESSA (BARRIE)

MILTON



# Bruce X Milton – Recommended Option

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- Has the transmission capability to meet the need identified
- Minimize land impact by routing along the existing Bruce to Milton corridor; consistent with provincial land use policy
- As compared to the Essa option:
  - provide about 1,000 MW of greater capability
  - would not be consuming the transmission capacity along the Barrie to GTA delivery path